MODEL OR END ITEM	NEXT ASSY	MODULE OR SER NO.	REQD PER MODULE OR END ITEM
LEM	LDW300-21809	MSC LAB T & SUBQ	1
		SEE NOTE 4	
LEM	LDW300-21809	LTA-1R(14)	2
LEM	LDW300-21809	LEM-6(36)	2
LEM	LDW300-21809	LEM-5(35)	2
LEM	LDW300-21809	LEM-4(34)	2
LEM	LDW300-21809	SCS(70)	2
LEM	LDW300-21809	FCI	2
LEM	LDW300-21809	QUAL TEST(70)	2
LEM	LDW300-21809	LEM-3(33)	2
LEM	LDW300-21809	LEM-2(32)	2
LEM	LDW300-21809	LEM-1(31)	2
LEM	LDW300-21809	LTA-8(18)	2
LEM	LDW300-21809	FMES	2
LEM	LDW300-21809	LMS-2	2
LEM	LDW300-21809	DMSM	2
LEM	LDW300-21809	LMS-1	2
LEM	LDW300-21809	CRIT ENVIR	2
LEM	LDW300-21809	TEST	
LEM	LDW300-21809	MIT LAB	2
LEM	LDW300-21809	NOTE 1	
LEM	LDW300-21809	LTA-1(11)	2

PART NO. LDW300-11807-15

MODEL OR END ITEM	NEXT ASSY	MODULE OR SER NO.	REQD PER MODULE OR END ITEM
LEM	LDW300-21800	MSC LAB T & SUBQ	1
		SEE NOTE 4	
LEM	LDW300-21800	FMES	2
LEM	LDW300-21800	LMS-2	2
LEM	LDW300-21800	DMSM	1
LEM	LDW300-21800	LMS-1	2
LEM	LDW300-21800	CRIT ENVIR	2
LEM	LDW300-21800	TEST	
LEM	LDW300-21800	MIT LAB	2
LEM	LDW300-21800	NOTE 1	
LEM	LDW300-21800	LTA-1(11)	2

PART NO. LDW300-11807-17

MODEL OR END ITEM	NEXT ASSY	MODULE OR SER NO.	REQD PER MODULE OR END ITEM
LEM	LDW300-28800	QUAL TEST(70)	2
LEM	LDW300-28800	FCI	2
LEM	LDW300-28800	SCS(70)	2
LEM	LDW300-28800	LTA-1R(14)	2
LEM	LDW300-28800	LEM-6(36)	2
LEM	LDW300-28800	LEM-5(35)	2
LEM	LDW300-28800	LEM-4(34)	2
LEM	LDW300-28800	LEM-3(33)	2
LEM	LDW300-28800	LEM-2(32)	2
LEM	LDW300-28800	LEM-1(31)	2
LEM	LDW300-28800	LTA-8(18)	2
LEM	LDW300-28800	DMSM	1

PART NO. LDW300-11807-19

GAEC SCH NO. 34

5

SH REV STATUS: FOR DESCRIPTION OF REV SEE SUBQ SH

SHEET	1.00	1:10	2:00	3.00					
REV	C	C	C	C					
SHEET									
REV									
SHEET									
REV									

LAST SECT LTR USED

LAST DASH NO. USED -19

GRUMMAN REL INFO. B/C

PRIM NO. 257 VE(003) MFSB X

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCE UNLESS SPECIFIED FRACTIONS - DECIMALS - ANGLES ±1/64 ±.010 ±1/2°

ORIG DWG AUTH

DETAIL SPEC REQUIREMENT

CLASS II ENGRG CHANGE

CLASS I ENGRG CHANGE

CONTRACT NO. NAS 9-1100 LINE ITEM 003 DOCUMENTATION TYPE II

DRAWN BY	J. NOWACK 8-27-65	RELIABILITY	9/29
LAYOUT BY	G CASTELLANO		
CHECKED BY	JL 9-9-65 JAO		
GP LEADER			
STRUCTURES	9-17-65	PROJ ENGR	9/29
STRUCTURES	9-17	REL GROUP	9-9
WEIGHTS	9-23-65		

GRUMMAN AIRCRAFT ENGRG CORP
BETHPAGE, L. I., NEW YORK

RETAINER
STAB. & CONT-TRANSLATION CONT

SIZE	CODE IDENT NO.	
B	26512	LDW300-11807 C

SCALE NONE SHEET 1:00 OF 4

ENG 77.1 9-64

01

NAS 9-1100

QTY PER ASSEMBLY	CODE IDENT	PART NO.	I&T	NOMENCLATURE OR DESCRIPTION	MATERIAL	GOVT SPEC	COML SPEC	STOCK SIZE	PROCESS SYM	FINISH NO.	ZONE
		LDW300-11807-19	E	RETAINER	AL. ALY SH	QQ-A-250/4	2024-T3	.032 x 6 x 6	NONE	SEE NOTE 3	
		LDW300-11807-17	E	RETAINER	AL, ALY SH	QQ-A-250/4	2024-T3	.032 x 6 x 6	NONE	88	
		LDW300-11807-15	E	RETAINER	AL. ALY SH	QQ-A-250/4	2024-T3	.050 x 1 1/2 x 2	NONE	88	
		LDW300-11807-11	E	RETAINER	AL ALY SH	QQ-A-355	2024-T3	.032 X 3 1/2 X 5 3/4	NONE	38	

SYM OR NO.	PROCESS OR FINISH	GRUMMAN SPEC OR MILITARY SPEC
88	ANODIZE	LSP14-9030

SYM OR NO.	PROCESS OR FINISH	GRUMMAN SPEC OR MILITARY SPEC

I&T: IDENTIFICATION AND TRACEABILITY IN ACCORDANCE WITH : NONE

GRUMMAN AIRCRAFT ENGRG CORP, BETHPAGE, L. I., NEW YORK

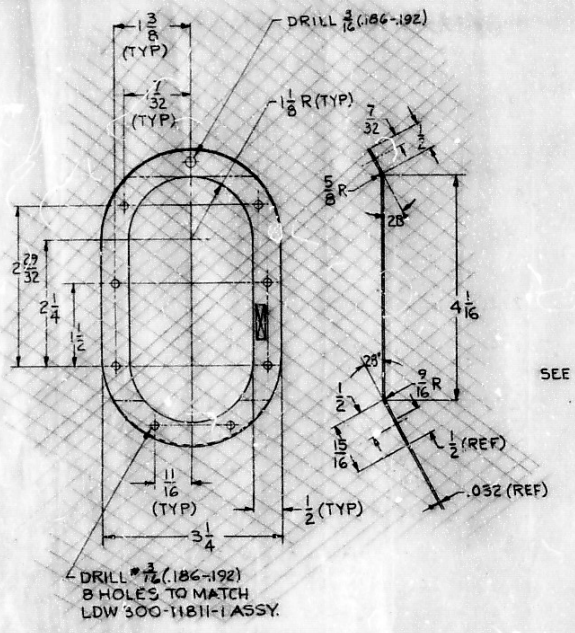
SIZE	CODE IDENT NO.		
B	26512	LDW300-11807	C

SCALE NONE SHEET 2:00

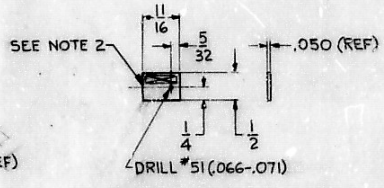
ENG 77.2 7-65

01

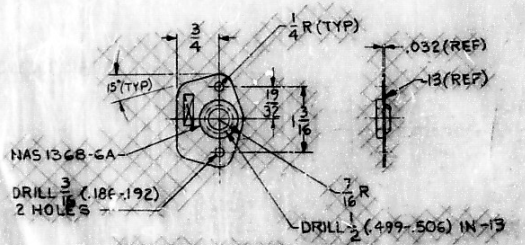
NAS 9-1100



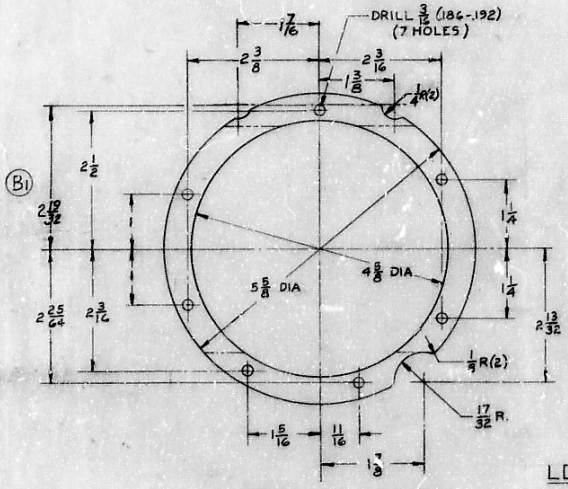
LDW300-11807-11 (A2)



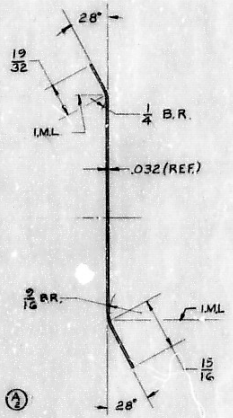
LDW300-11807-15



(B1) LDW300-11807-13
LDW300-11807-1 ASSY



SHOWN AS FLAT PATTERN



LDW300-11807-17 -19 (C1)

NOTES:
1. DELIVER TO M.I.T., CAMBRIDGE, MASS. AS AUTHORIZED BY CCA 31 (LTR BG 54 65-97)
2. REMOVE ALL BURRS AND SHARP EDGES .015-.005.
3. FINISH "3M SERIES 400 VELVET COATING MATERIAL" GRAY # 401 B2 TO BE APPLIED PER LSP-14-4503 TO NEAR SIDE OF -19. CURE PER LSP-14-4503 AT 160°F ±10°F FOR 6 HOURS MINIMUM.
4. "AUTHORIZATION BY CCA #237 (LTR BG 54-66-287)

MANUFACTURING OPERATIONS
UNLESS OTHERWISE SPECIFIED NOTES CHECKED √ APPLY TO THIS DWG.

- RUBBER STAMP PART NUMBER AND ALL OTHER MARKINGS IN REGION MARKED ▭ USE BOTH SIDES IF NECESSARY. ✓
- FILLET AND INSIDE CORNER RADII TOLERANCES .016R TO .062R ± .010; .063R TO .250R ± .015; OVER .250R ± .030
- DEPTH SHOWN FOR TAPPED HOLES IS FULL THDS. 2-3 IMP THDS. BEYOND PERMISSIBLE.
- EXTERNAL THREAD LENGTH SHOWN INCLUDES 2 IMPERFECT THREADS MAX.
- DO NOT CADMIUM PLATE & PAINT HOLES OR SURFACES MARKED WITH DOUBLE ASTERISK.
- MISMATCH STEP OF ± .005 PERMISSIBLE DUE TO CHANGE OF CUTTERS AT INSIDE INTERSECTING SURFACES.
- DIAMETRY MARKED MUST BE CONCENTRIC WITHIN FULL INDICATOR READING
- HOLES MUST BE KEPT FREE OF CHROME PLATING SOLUTION.
- ALL DIMENSIONS SHOWN TO BE MET AFTER CADMIUM PLATING. THICKNESS OF PLATE .002 MIN. TO .0005 MAX. MIN. THICKNESS TO BE .0002 ON THREADED AREAS. NO ALLOWANCE FOR PLATING IN HOLES
- SURFACE ROUGHNESS INCLUDING REAMED HOLES PER MIL-STD-10: 125 √ FOR ALL DRILLED HOLES; 250 √ FOR ALL DRILLED HOLES
- REMOVE ALL BURRS. DEBUR ALL EDGES .015-.031
- INSPECTION INFORMATION MINIMUM PERMISSIBLE AVERAGE EDGE DISTANCE MARKED IS
- SYMBOL √ DENOTES SURFACE TO BE MACHINED
- UNLESS OTHERWISE SPECIFIED TOLERANCE ON FLANGES IS ± 1/32
- LENGTHS OF AN, NAS & MS AL ALY RIVETS SHORTER THAN 1 INCH ARE NOT SPECIFIED.
- TOLERANCE ON LOFTED DELINEATIONS IS

	GRUMMAN AIRCRAFT ENGRG CORP., BETHPAGE, L. I., NEW YORK		
LEM	SIZE D	CODE IDENT. NO. 26512	LDW300-11807 C
MODEL OR END ITEM	SCALE FULL		SHEET 3 OF 00

LDW300-11807B (2)

NAS 9-1100

REVISIONS

CHANGE LTR	ITEM NO.	SHEET NO.	ZONE	~~SH ONE LTR~~	GRUMMAN INFO ONLY	DET SPEC	CLASS I	CLASS II	ENGRG ORDER	DESCRIPTION	EFFECTIVITY	DISPOSITION OF EXISTING PARTS: REWORK	DISPOSITION OF EXISTING PARTS: SCRAP	CHANGED BY 2ND DATE	ENGRG APPD	QUALITY APPD
A	1	1:10						✓		SHEET 1:00 OF 4 WAS 1:00 OF 3, ADDED SH 1:10	NOT REQD	NOT	REQD			
	2	1:00 2:00 3:00						✓		-17 WAS -11	NOTED		-11 ✓			
B	1	1.10 3.00 2.00 1.00	5A 8A						E.O. B1	ON -17 ADDED 1/4 R. 17/16, 13/8 & 219/32 DIMS. ON -15 & -17 FINISH 88 WAS 38 -1 & -13 DELETED	CRIT ENV TEST MIT LAB, FMES LTA-1 & 8, DMSM LMS-1 & 2, LEM-1 & 3	✓	-1 & -13	J LOGAN 5-3-66		
	2	1.10 1.00						✓	LEO 300-11 (R)	IN MOD. BLK. ADDED EFF. FOR QUAL. TEST, DMSM, FCI, SCS, LEM-4, -5, -6 & LTA-1R	NOTED	NOT REQD		4B	LAO	
C	1	1.00 1.00 2.00 3.00							E.O. C1	ADDED -19 & NOTE 3. DELETED -17 EFF FOR: DMSM (N/A LDW300-28800), SCS, FCI, LTA-1R, QUAL TEST, LEM-1, -2 -3, -4, -5 -6 & LTA-8	DMSM, SCS, FCI, LTA-1R, QUAL TEST LTA-8, LEM-1 THRU LEM-6	✓		R. PRINZIVALLI 7-26-66		
	2	1.00 1.10							LEO 300-15	FOR -15 & -17 IN MOD. BLK. ADDED EFF. MSC LAB, SEE NOTE 4	1 & SUBQ	NOT	REQD			
	3	1.00 1.10 2.00							E.O. C3 (R)	ON B/M ONLY .050 WAS .032 FOR -15, ON -15 & -17 MOD. BLK. FOR CRIT. ENVIR. TEST QUAN. (2) WAS (3)	CRIT. ENV TEST MIT LAB, FMES MSC LAB, FCI, QUAL TEST, SCS LTA-1 & 8, DMSM LEM-1 THRU -6 LMS-1 & -2					

GRUMMAN AIRCRAFT ENGRG CORP, BETHPAGE, L. I., NEW YORK

SIZE	CODE IDENT NO.		
B	26512	LDW300-11807	C
SCALE NONE			SHEET 1:10

ENG 77.3 5-64

01

NAS 9-1100

GRUMMAN AIRCRAFT ENGINEERING CORP.
CODE IDENT NO. 26512

ENG 32.2 REV 3-65

ENGINEERING ORDER

DWG. NO.	LEO 300		EO NO. 15
CONTROL INFO NO.	LDW 300-188		

*USE NEXT AVAILABLE NOTE NO.

ADD NOTE* "AUTHORIZED BY CCA #237 (LTR BG 54-66-287)"

ADD TO MODEL BLOCK, FOR DASH NOS. NOTED, THE EFF. AS SHOWN ON THE FOLLOWING DWGS.

LEM	M.S.C. LAB. SEE NOTE *	SEE BELOW
MODEL	MODULE	REQD PER END ITEM

PART NO.	DASH NO.	NEXT ASSY	REQD PER END ITEM	CHG. LETTER
LDW300-11805	-11,-17,	LDW300-21801	1 EA	A5
"	-19			
-11807	-15	-21809	1	C2
-11807	-17	-21800	1	
-11808	-11,-13	-21800	1 EA	C1
-11810	-15,-17,	-21801	1 EA	C2
"	-19,-23,	"	"	
"	-25	"	"	
-11816	-1	-21803	2	C1
LDW300-11821	-13	-21808	2	C1
LDW300-11813	-11,-13	-21801	1 EA	A1
LDW300M11810	-1	-21803	2	B1
M11811	-1	-21800	2	B1
M11813	-1	-21802	2	B1
M11820	-1	-21801	2	C1
M11829	-1	-21802	2	C1
M11834	-1	-21802	4	C1
"	-1	-21803	8	
M11837	-1	-21808	2	C1
"	-1	-21808	4	
M11840	-3	-21803	2	C1
M11841	-1	-21803	2	C1
M11843	-1	-21803	2	C1
LDW300M11845	-1	LDW300-21803	2	B1
LDW300M11814	-3	LDW300-21806	2	A3
LDW300M11886	-1	LDW300-21807	1	B2
"	-1	-21806	6	
"	-3	-21806	1	
"	-5	-21806	1	

PART NO.	DASH NO.	NEXT ASSY.	REQD PER END ITEM	CHG. LETTER
LDW300M11846	-1	LDW300-21803	4	C1
M11858	-1	-21809	2	B1
M11876	-1,-5	-21800	1 EA	C1
M11882	-1	-21806	4	C1
M11882	-3	-21807	1	
M11894	-3	-21801	2	C1
LDW300M11898	-1	-21806	3	C1
LDW300P11806	-1	-21804	2	C1
P11807	-1	-21806	1	
P11807	-3	-21800	1	C1
P11807	-5	-21806	2	
P11810	-1	-21802	2	C1
P11811	-1	-21802	2	B2
P11812	-3	-21806	1	C1
P11812	-5	-21806	2	
P11814	-1	-21803	2	B2
LDW300P11818	-3	-21801	2	C1
LDW300P11813	-1	-28805	1	A1
LDW300-21808	-5	-21802	1	B3
LDW300-21808	-7	-21803	2	
LDW300-11823	-11,-13	LDW300-21801	1 EA	B3

▲ USE APPLICABLE DASH NO IN DESCRIPTION OF E.O.

DETAIL SPEC REQ	CL II ENGRG CHG	CL I ENGRG CHG

REASON FOR EO: UPDATE EFFECTIVITY PER CCA #237 (LTR BG 54-66-287)

FOR - ▲ DESCRIPTION OF EO: IN MOD. BLK. ADDED EFF. M.S.C. LAB, SEE NOTE *

GAEC EO RELEASE

MODEL	EFFECTIVITY: PROCURING ACTIVITY NO.	EFFECTIVITY: GAEC UNIT NO.	EFFECTIVITY: SUB CONTR UNIT NO.
LEM	NOTED	ABOVE	

DRAWING CHANGE REQD: REVISE DWG	RECORD LW	DISPOSITION OF PARTS: REWORK	SCRAP
✓		NOT	REQD

APPROVED BY	DATE	SUPPORT	RELIAB. GROUP	GROUP LEADER	STRESS GROUP	LIAISON ENGRG	PROJ. ENGRG	QUAL
JAO	6-30-66			6/30/66	6-30		7-5-66	7-1-66

PRIORITY	DRAWING TITLE	DRAWING NO.	EO NO.
C	NOTED	LEO 300	15

ISSUED BY FRANK PEPE x1672 6/28/66 SECTION GN&C GROUP NO. 300 PL 35

01
NAS 9-1100